

ABSTRACT OF THE DISCLOSURE

A welding wire of the type consists of a plated or uncovered solid wire and a flux-cored wire for carbon steel or stainless steel, wherein one or more of hydrocarbon compounds selected from the group consisting of saturated or unsaturated hydrocarbon compounds, which have from 5 to 12 carbon atoms and a linear or branched structure, and hydrocarbon compounds having a cyclic structure are deposited on a wire surface. A lubricating oil and/or lubricating particles are chemically combined with a wire surface through the one or more hydrocarbon compounds. The total amount of the hydrocarbon compounds, and a lubricating oil and/or lubricating particles deposited on the wire surface is in the range of 0.1 to 5 g per 10 kg of the wire.

TOP SECRET - CONFIDENTIAL